

Figure 1

Figure 2A

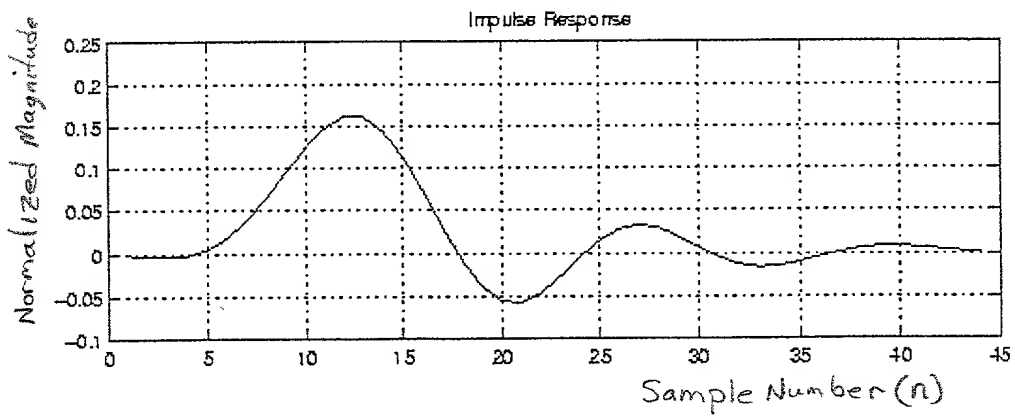
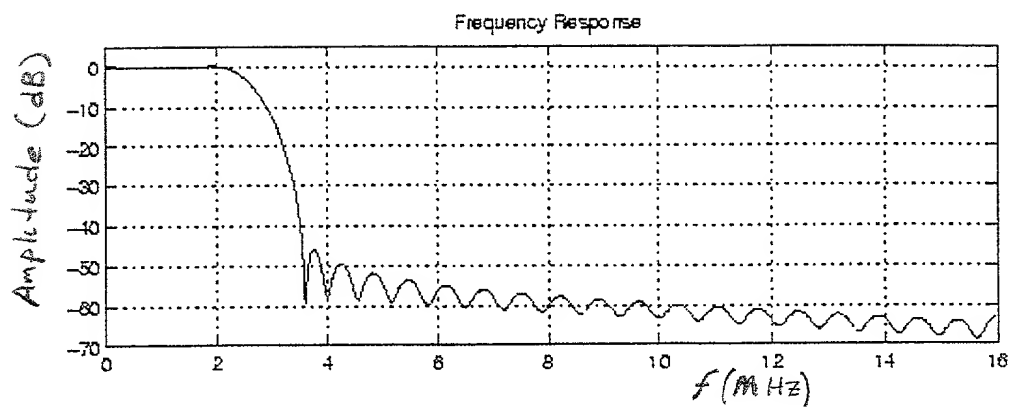


Figure 2B

Figure 3A

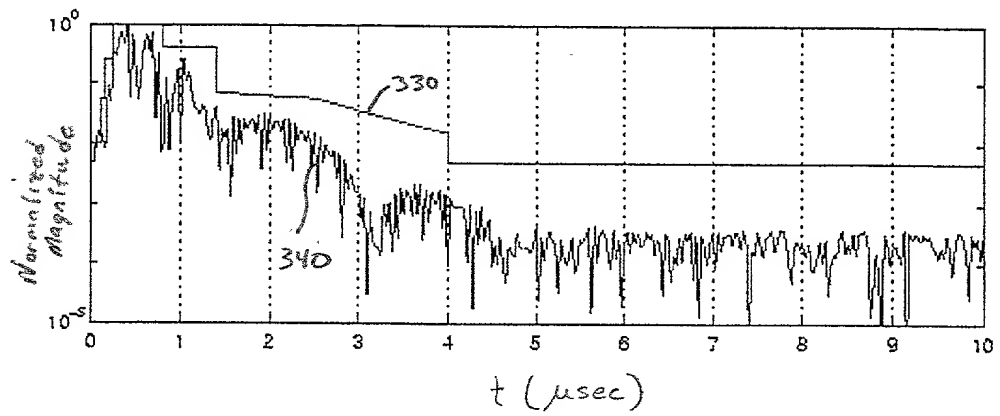
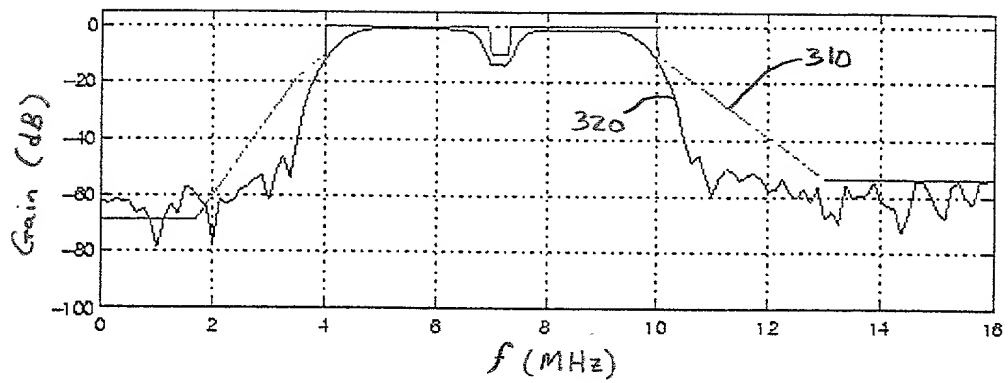


Figure 3B

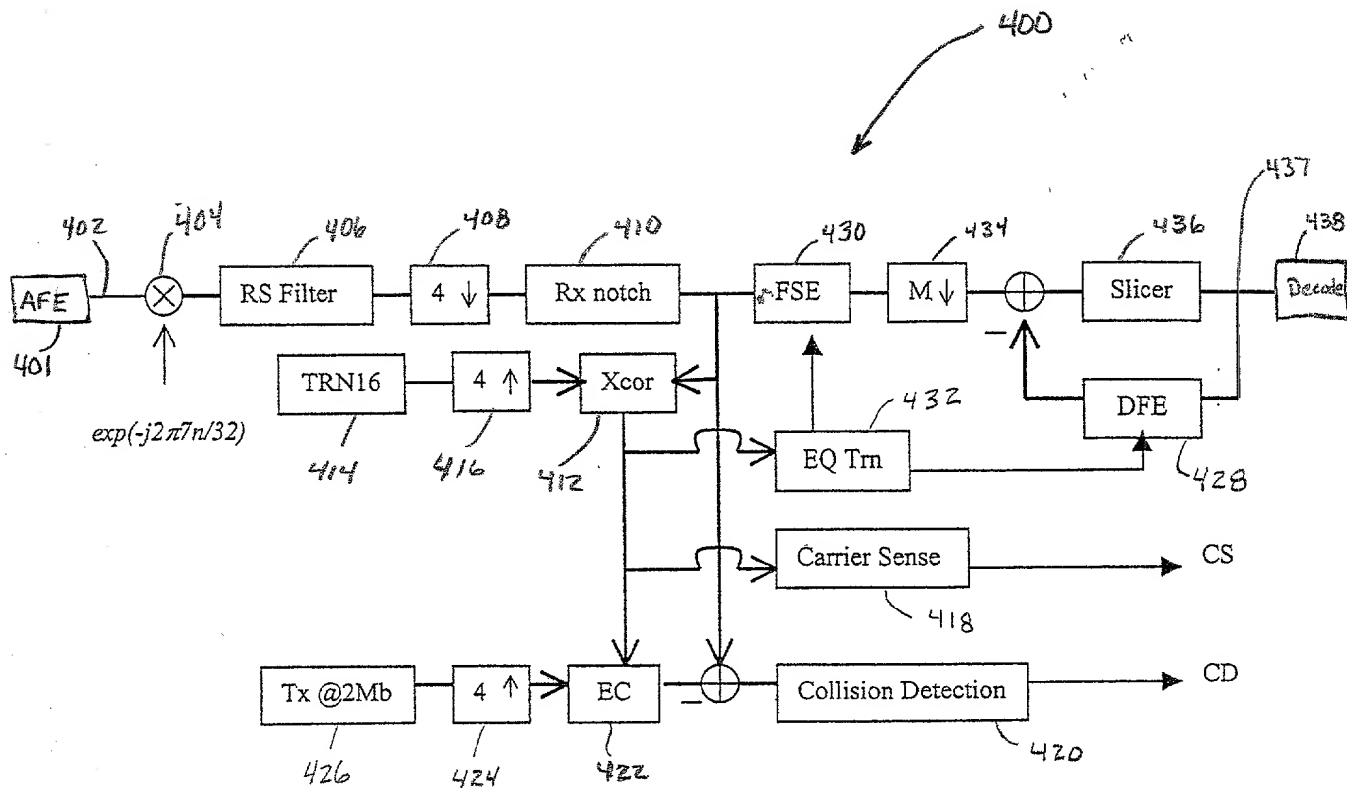


Figure 4

Figure 5A

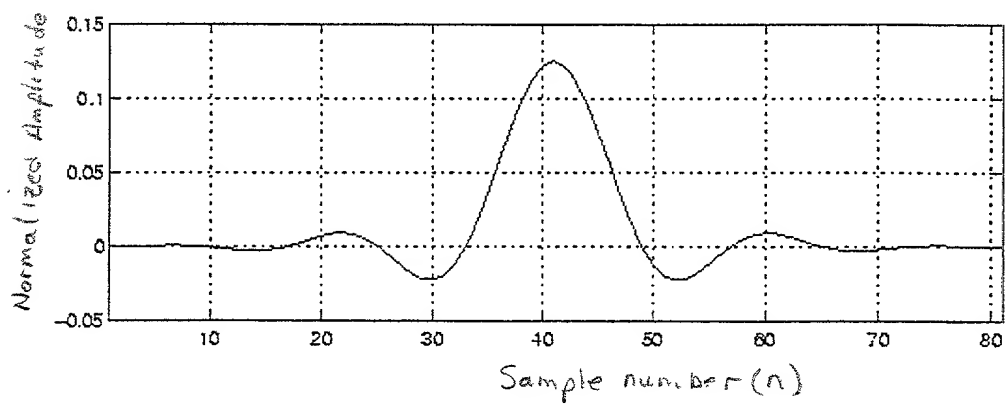
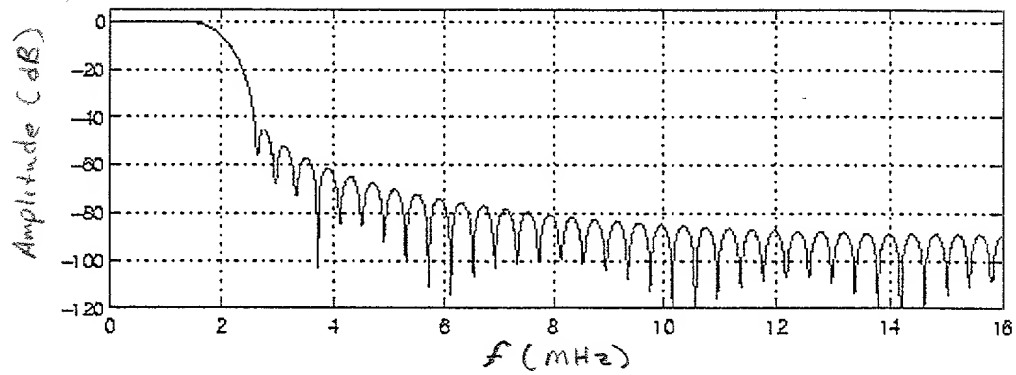


Figure 5B

TOP SECRET

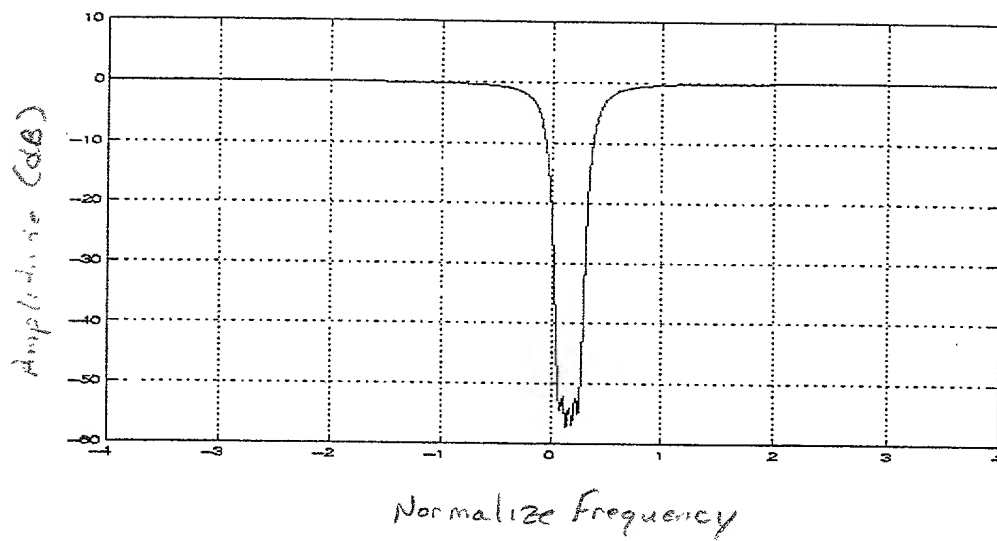


Figure 6

TOP SECRET

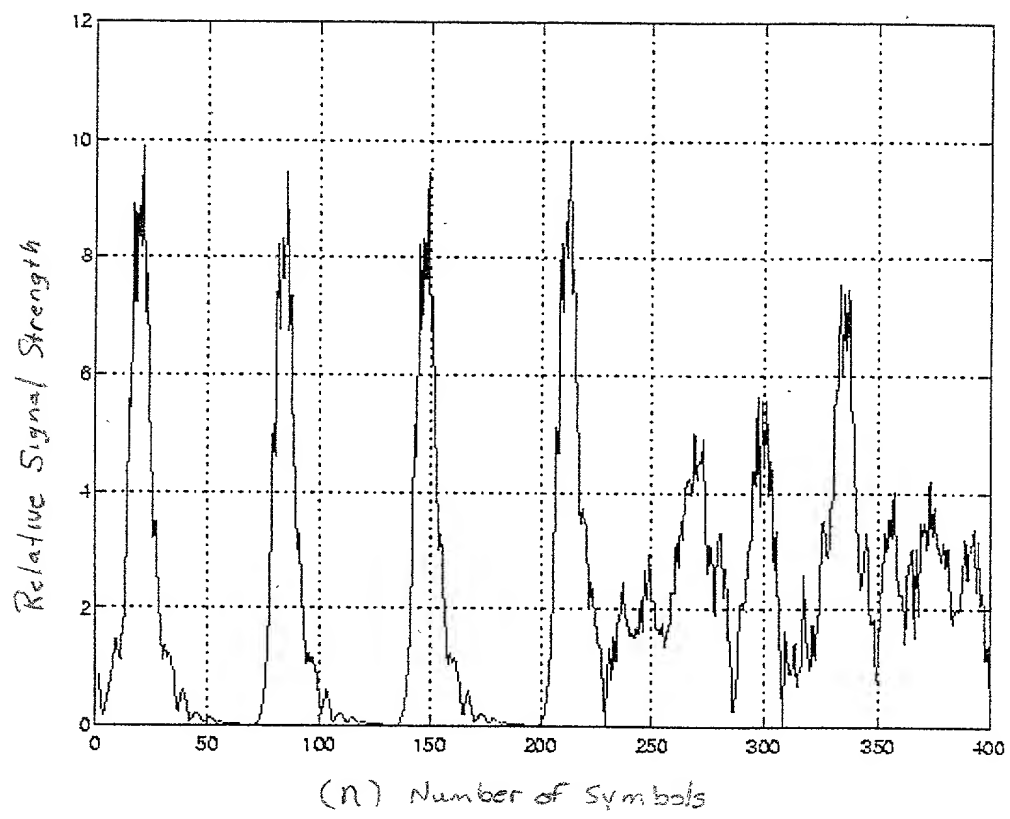


Figure 7

The figure consists of two vertically stacked line plots sharing a common x-axis labeled '(n) Number of Symbols' ranging from 0 to 200.

The top plot is titled 'Echo signal'. The y-axis is labeled 'Relative Signal Strength' and ranges from 0 to 1. The signal starts at 0, rises sharply to about 0.6 by symbol 10, and then fluctuates rapidly between approximately 0.4 and 1.0 for the remainder of the 200 symbols.

The bottom plot is titled 'Residual echo signal'. The y-axis is labeled 'Relative Signal strength' with a multiplier of  $\times 10^{-3}$  and ranges from 0 to 5. The signal starts at approximately 1.5, fluctuates, and then drops to near 0 by symbol 30. It remains at 0 until symbol 60, after which it rises and fluctuates rapidly between approximately 0.5 and 4.5 for the rest of the 200 symbols.

Figure 8



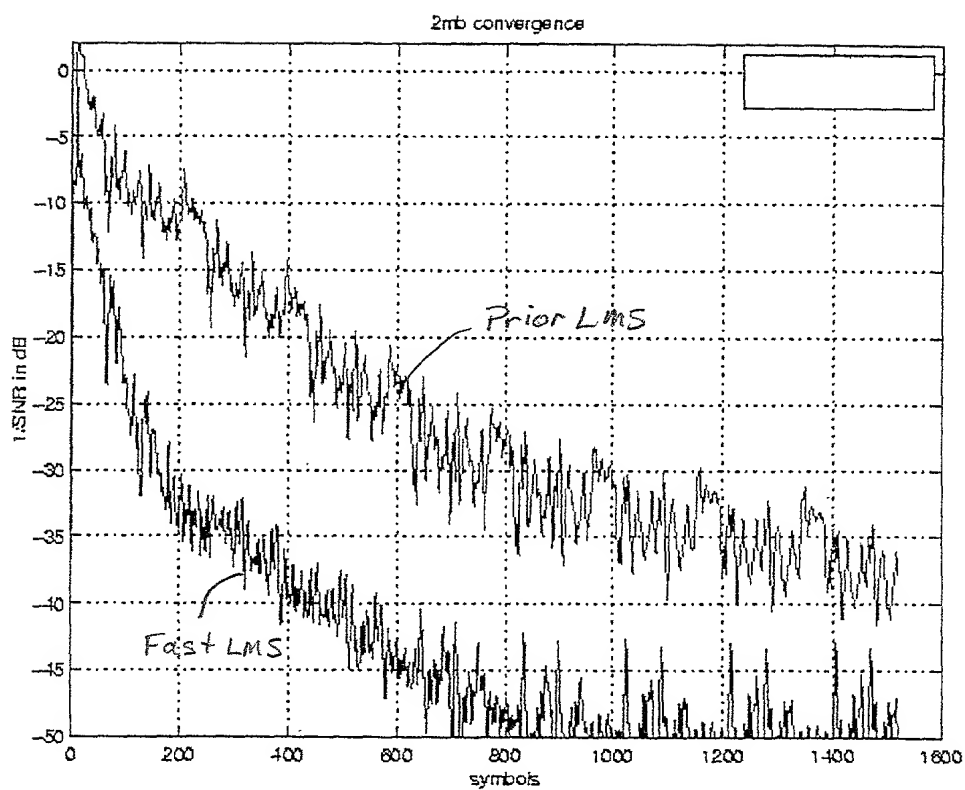


Figure 9

4mb convergence

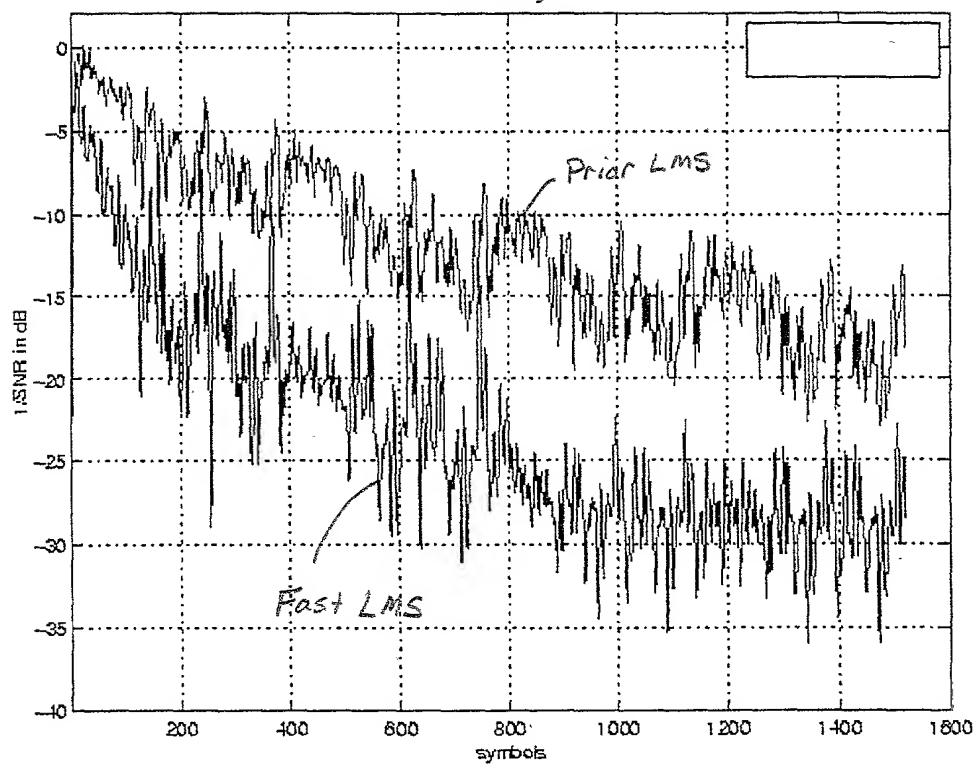


Figure 10

SNR at the output of equalizer		
Test Loops	2 Mbaud	4 Mbaud
Loop #1	50 dB	30 dB
Loop #2	35 dB	25 dB
Loop #3	35 dB	30 dB
Loop #4	35dB	27 dB
Loop #5	40 dB	27 dB
Loop #6	30 dB	25 dB
Loop #7	32 dB	22 dB
Loop #8	40 dB	28 dB
Loop #9	30 dB	22 dB
Loop #10	25 dB	15 dB

Figure 11

TOP SECRET

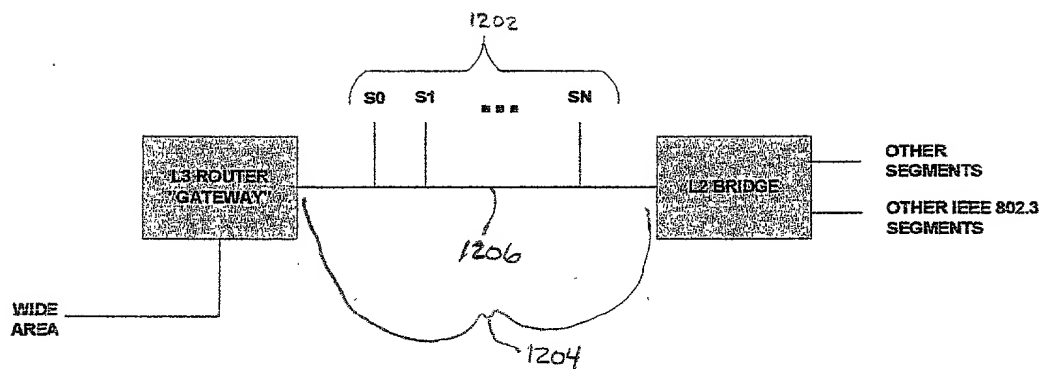


Figure 12 (known).